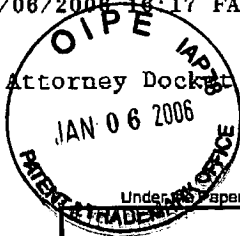


Attorney Docket No. PEON 5-1-3 (D8143-00257)



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/98 (12-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Agere Systems, Inc.Application No. 09/885,777 Filed/Issue Date: XXXXX June 20, 2001Entitled: DETECTION AND CORRECTION CIRCUIT FOR BLIND EQUALIZATION CONVERGENCE ERRORSAgere Systems, Inc.

(Name of Assignee)

, a corporation

(Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

In the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a true copy of the original assignment is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Inventor(s) To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel 011926, Frame 0330, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Steven E. Koffs  
Signature

Steven E. Koffs

Printed or Typed Name

Attorney for Applicants

Title

Jan. 6, 2006  
Date

215.979.1250

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PH1\1525168.1

11/22/2005 15:37

AGERE IP LAW → 912159791020

NO. 290

D04

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 08/28/2002  
020545373 - 3768412

**CERTIFICATE OF OWNERSHIP AND MERGER****OF****Agere Systems Guardian Corp.**  
(a Delaware corporation)**INTO****Agere Systems Inc.**  
(a Delaware corporation)**UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), DOES HEREBY CERTIFY:

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

**AGERE SYSTEMS INC.**

By Paul Bento  
Paul Bento, Vice President

11/22/2005 15:37

AGERE IP LAW → 912159791020

NO.290

003

# Delaware

PAGE 1

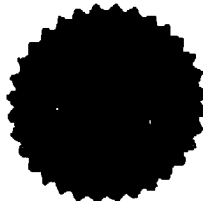
*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION, WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

3268412 B100M

AUTHENTICATION: 1959517

020545223

DATE: 06-29-02



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 05, 2001

PTAS

DUANE, MORRIS & HECKSCHER LLP  
WILLIAM H. MURRAY, ESQ.  
4200 ONE LIBERTY PLACE  
PHILADELPHIA, PA 19103-7396



\*101763802A\*

08/43-00257 10-21-2001 original  
Sent to Agere

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

SEP 12 2001

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/29/2001

REEL/FRAME: 011926/0330  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
PEON, ROGELIO

DOC DATE: 05/08/2001

ASSIGNOR:  
VILA, PABLO

DOC DATE: 05/29/2001

ASSIGNOR:  
ROYO, ANDER

DOC DATE: 05/08/2001

ASSIGNEE:  
AGERE SYSTEMS GUARDIAN CORP.  
SUITE 105, 14645 N.W. 77TH AVENUE  
MIAMI LAKES, FLORIDA 33014

SERIAL NUMBER: 09885777  
PATENT NUMBER:

FILING DATE: 06/20/2001  
ISSUE DATE:

011926/0330 PAGE 2

DOROTHY BASMA, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Express Mail Label No. EL714875825US

JAN 06 2006

06-28-2001

Attorney Docket No.: PEON 5-1-3

To the Honorable Commissioner of Patents

original documents or copy thereof.

1. Name of conveying party(ies):

1. Rogelio Peon; 2. Pablo Vila; 3. Ander Royo

101763802

ress of receiving party(ies):

Name: Agere Systems Guardian Corp.

Internal Address:

Additional name(s) of conveying party(ies) attached? ( ) Yes (x) No

3. Nature of conveyance:

(x) Assignment

( ) Merger

( ) Security Agreement

( ) Change of Name

( ) Other

Street Address: Suite 105, 14645 N.W. 77<sup>th</sup> Avenue

City: Miami Lakes State: FL ZIP: 33014

Additional name(s) and address(es) attached? ( ) Yes (x) No

Execution Date: 1) 5/8/01; 2) 5/29/01; 3) 5/8/01

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

1) 5/16/01; 2) 5/29/01; 3) 5/21/01

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: ( ) Yes (x) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: William H. Murray, Esq.

Internal Address:

Street Address: Duane, Morris &amp; Heckscher LLP

4200 One Liberty Place

City: Philadelphia State: PA ZIP: 19103-7396

6. Total number of applications and patents involved: (1) One

7. Total fee (37 CFR 3.41).....\$40.00

( ) Enclosed

(X) Authorized to be charged to deposit account

8. Deposit account number:

50-1735

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Steven E. Koffs, Reg. No. 37,163

Name of person signing

Steven E. Koffs

Signature

June 20, 2001

Date

Total number of pages including cover sheet, attachments, and document (11)

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments[D8143-00257]  
PH11858174.1

9943  
PATENT  
[D8142-00257]



Case Name and No.: PEON 5-1-3

### ASSIGNMENT AND AGREEMENT

For value received, we, **Rogelio Peon**, C/San Bemado 41-6C, Gijon (Asturias), Spain; **Pablo Vila**, Ramos Carrion 9, 4B, Madrid, Spain, and **Ander Royo**, Avda. Ramon y Cajal 109, 2-A, 28043 Madrid, Spain, do hereby sell, assign and transfer to Agere Systems Guardian Corp., a corporation of the State of Delaware, having an office at Suite 105, 14645 N.W. 77<sup>th</sup> Avenue, Miami Lakes, Florida 33014, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Detection and Correction Circuit for Blind Equalization Convergence Errors**, described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Agere Systems Guardian Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Agere Systems Guardian Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Agere Systems Guardian Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Agere Systems Guardian Corp. in the United States and in all countries foreign to the United States, or to such nominees as Agere Systems Guardian Corp. may designate.

PH1\831788.1



2

Case Name and No.: PEON 5-1-3

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Rogelio Peon

Date: \_\_\_\_\_

United States of America )

Commonwealth of Pennsylvania ) ss.:

County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Rogelio Peon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

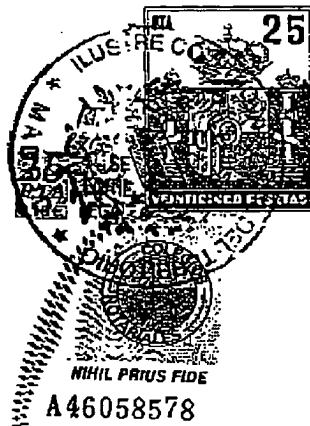
\_\_\_\_\_  
Notary Public

PH1W31788.1





El presente folio es el agregado al documento en el que figura la firma de  
D. D<sup>a</sup> Jose Angel Gomez-Roman Etchart de  
fecha 3 Mayo 2001



Apostille (o legalización única)  
(Convention de La Haya du 5 octobre 1961)  
(Real Decreto 2433/1978, de 2 de octubre)

1. País: España  
El presente documento público
2. Ha sido firmado por D. Jose Angel Gomez-Roman Etchart
3. Actuando en calidad de NOTARIO
4. Se halla sellado/timbrado con el de su Notaría
5. En Madrid
6. El 8 Mayo 2001
7. Por el Decano del Colegio Notarial de Madrid
8. Con el número 10.328
9. Sello/timbre:
10. Firma:

D. Carlos Ruiz-Rivera Hernandez  
Miembro de la Junta Directiva en Funciones de Decano

LG 0508523



Case Name and No.: PEON 5-1-3

Ander Royo

Date: \_\_\_\_\_

United States of America )

Commonwealth of Pennsylvania ) ss.:

County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Ander Royo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

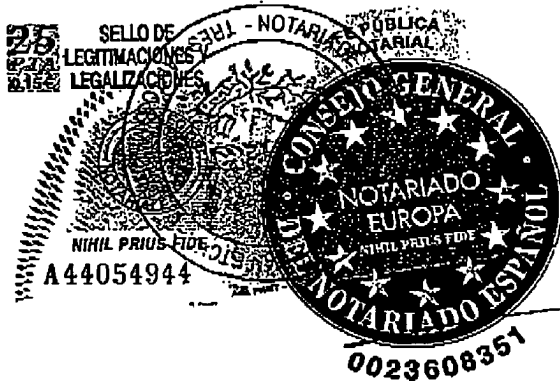
\_\_\_\_\_  
Notary Public

Agere Systems Guardian Corp.  
Suite 105  
14645 N.W. 77<sup>th</sup> Avenue  
Miami Lakes, FL 33014

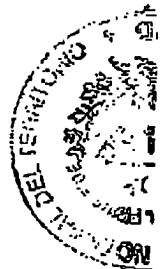
PH1\831788.1

En Tres Cantos, a tres de mayo de dos mil uno.  
YO, JOSE ANGEL GOMEZ-MORAN ETCHART, Notario del  
Ilustre Colegio de Madrid, con residencia en esta  
localidad. -----

DOY FE: Que considero legitima la firma estam-  
pada en el presente documento, redactado en inglés  
idioma que conozco, correspondiente a: DON ANDER  
ROYO OREJAS, con documento nacional de identidad  
número 416806W, por haber sido puesta en mi presen-  
cia. -----

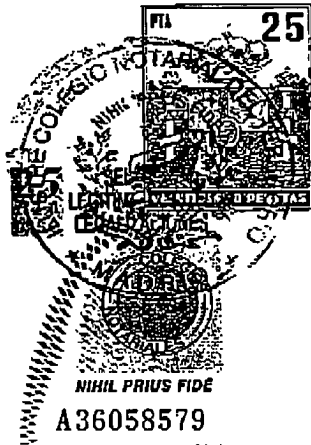
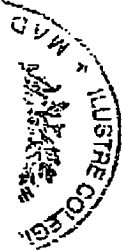


*[Handwritten signature]*





El presente folio es el agregado al documento en el que figura la firma de  
 D. /D<sup>a</sup> Jose Angel Gomez-Rivas Echant de  
 fecha 3 Mayo - 2001



Apostille (o legalización única)  
 (Convention de La Haya du 5 octobre 1961)  
 (Real Decreto 2433/1978, de 2 de octubre)

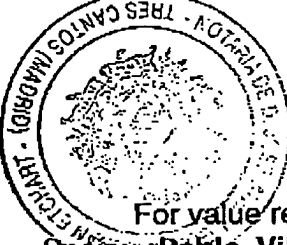
1. País: España  
 El presente documento público
2. Ha sido firmado por D. Jose Angel Gomez-Rivas Echant
3. Actuando en calidad de NOTARIO
4. Se halla sellado/timbrado con el de su Notaría
5. En Madrid
6. El 8 Mayo - 2001
7. Por el Decano del Colegio Notarial de Madrid
8. Con el número 10.379
9. Sello/timbre:
10. Firma:

D. Carlos Ruiz-Rivas Hernandez  
 Miembro de la Junta Directiva en Funciones de Decano

LG 0508524

AP  
12638  
PATENT  
[D8142-00257]

Case Name and No.: PEON 5-1-3



## ASSIGNMENT AND AGREEMENT

For value received, we, **Rogelio Peon**, C/San Bernado 41-6C, Gijon (Asturias), Spain; **Pablo Vila**, Ramos Carrion 9, 4B, Madrid, Spain, and **Ander Royo**, Avda. Ramon y Cajal 109, 2-A, 28043 Madrid, Spain, do hereby sell, assign and transfer to Agere Systems Guardian Corp., a corporation of the State of Delaware, having an office at Suite 105, 14645 N.W. 77<sup>th</sup> Avenue, Miami Lakes, Florida 33014, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Detection and Correction Circuit for Blind Equalization Convergence Errors**, described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Agere Systems Guardian Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Agere Systems Guardian Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Agere Systems Guardian Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Agere Systems Guardian Corp. in the United States and in all countries foreign to the United States, or to such nominees as Agere Systems Guardian Corp. may designate.

PH1\831788.1

3

Case Name and No.: PEON 5-1-3

PATENT  
[D8142-00257]  
Pablo VilaDate: 29-05-2001

United States of America )

Commonwealth of Pennsylvania ) ss.:

County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me personally came Pablo Vila, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

PH14831786.1

En Tres Cantos, a veintinueve de mayo de dos mil uno.

YO, JOSE ANGEL GOMEZ-MORAN ETCHART, Notario del Ilustre Colegio de Madrid, con residencia en esta localidad.

DOY FE: Que considero legitima la firma estampada en el presente documento, correspondiente a: DON PABLO LUIS VILA RODRIGUEZ también conocido como Pablo Vila, con documento nacional de identidad y N.I.F. número: 7238153-F, por haber sido puesta en mi presencia.



Apostille (o legalización única)  
(Convention de La Haya du 5 octobre 1961)  
(Real Decreto 2433/1978, de 2 de octubre)

1. País: España  
El presente documento público
2. Ha sido firmado por D. JOSÉ ANGEL GOMEZ-MORAN ETCHART
3. Actuando en calidad de NOTARIO
4. Se halla sellado/timbrado con el de su Notaría
5. En Madrid
6. El 4 DE JUNIO 2001
7. Por el Decano del Colegio Notarial de Madrid
8. Con el número 13193
9. Sello/timbre:
10. Firma:

D. Pablo Durán de la Colina  
Miembro de la Junta Directiva en Funciones de Decano

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**